

KOCETAL® K300

Acetal (POM) Copolymer

Kolon Plastics, Inc.

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Kocetal K300 is a general injection molding grade with a good mechanical property for wide range.

General

| | |
|-----------------------------|---|
| Material Status | <ul style="list-style-type: none">Commercial: Active |
| Literature ¹ | <ul style="list-style-type: none">Processing - Kocetal (English)Technical Datasheet - ASTM (English)Technical Datasheet - ISO (English) |
| UL Yellow Card ² | <ul style="list-style-type: none">E190675-238633 |
| Search for UL Yellow Card | <ul style="list-style-type: none">Kolon Plastics, Inc.KOCETAL® |
| Availability | <ul style="list-style-type: none">Asia PacificEuropeLatin AmericaNorth America |
| Features | <ul style="list-style-type: none">General Purpose |
| Uses | <ul style="list-style-type: none">General Purpose |
| RoHS Compliance | <ul style="list-style-type: none">RoHS Compliant |
| Forms | <ul style="list-style-type: none">Pellets |
| Processing Method | <ul style="list-style-type: none">Injection Molding |

| Physical | Nominal Value Unit | Test Method |
|---|------------------------|------------------------|
| Specific Gravity | 1.41 g/cm ³ | ASTM D792 ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 9.0 g/10 min | ASTM D1238 ISO 1133 |
| Molding Shrinkage | | |
| Flow | 2.0 % | ASTM D955 |
| Across Flow | 2.2 % | ISO 294-4 |
| Flow | 2.3 % | ISO 294-4 |
| Water Absorption | | |
| 23°C, 24 hr | 0.59 % | ISO 62 |
| Equilibrium, 23°C, 60%RH | 0.22 % | ASTM D570 |
| Mechanical | Nominal Value Unit | Test Method |
| Tensile Strength | | |
| -- | 64.0 MPa | ASTM D638 |
| 23°C | 65.0 MPa | ISO 527-2 |
| Tensile Elongation | | |
| Yield, 23°C | 60 % | ASTM D638 |
| Break, 23°C | 35 % | ISO 527-2 |
| Flexural Modulus | | |
| 23°C | 2500 MPa | ASTM D790 |
| 23°C | 2700 MPa | ISO 178 |
| Flexural Strength | | |
| 23°C | 94.0 MPa | ASTM D790 |
| 23°C | 85.0 MPa | ISO 178 |
| Impact | Nominal Value Unit | Test Method |
| Charpy Notched Impact Strength (23°C) | 7.0 kJ/m ² | ISO 179/1eA |
| Notched Izod Impact (23°C) | 67 J/m | ASTM D256 |
| Hardness | Nominal Value Unit | Test Method |
| Rockwell Hardness | | |
| M-Scale | 80 | ASTM D785 |
| M-Scale | 93 | ISO 2039-2 |



| Thermal | Nominal Value Unit | Test Method |
|-----------------------------------|--------------------|---------------------------|
| Deflection Temperature Under Load | | |
| 0.45 MPa, Unannealed | 158 °C | ASTM D648 |
| 1.8 MPa, Unannealed | 110 °C | ASTM D648 |
| 1.8 MPa, Unannealed | 95.0 °C | ISO 75-2/A |
| Vicat Softening Temperature | 162 °C | ASTM D1525 |
| Melting Temperature ⁴ | 166 °C | ASTM D3418 ISO 11357-3 |
| CLTE - Flow | 1.3E-4 cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value Unit | Test Method |
| Surface Resistivity | 1.0E+16 ohms | ASTM D257 IEC 60093 |
| Volume Resistivity | 1.0E+14 ohms·cm | ASTM D257 IEC 60093 |
| Dielectric Strength | 19 kV/mm | ASTM D149 IEC 60243-1 |
| Dielectric Constant | 3.70 | ASTM D150 |
| Dissipation Factor (1 MHz) | 6.0E-3 | ASTM D150 |
| Flammability | Nominal Value Unit | Test Method |
| Flame Rating (0.800 mm) | HB | UL 94 |

| Injection | Nominal Value Unit |
|------------------------|--------------------|
| Drying Temperature | 80.0 to 90.0 °C |
| Drying Time | 3.0 hr |
| Rear Temperature | 180 °C |
| Middle Temperature | 190 °C |
| Front Temperature | 190 °C |
| Nozzle Temperature | 200 °C |
| Processing (Melt) Temp | < 220 °C |
| Mold Temperature | 60.0 to 80.0 °C |

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 10°C/min

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Where to Buy

Supplier

Kolon Plastics, Inc.

Kwacheon-city Kyunggi-do, South Korea

Telephone: +82-2-3677-3611

Web: <http://kolonplastics.com>

Distributor

A. Westensee und Partner Rohstoff GmbH

Telephone: +49-4171-8812-0

Web: <http://www.awp-rohstoffe.de/>

Availability: Germany

API-Kolon Engineering Plastics

Telephone: 847-550-5556

Web: <http://www.apikolon.com/>

Availability: Mexico, North America, South America

Chase Plastic Services, Inc.

Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here:

<http://www.chaseplastics.com/contact/locations>

Telephone: 800-232-4273

Web: <http://www.chaseplastics.com/>

Availability: North America

GAZECHIM PLASTIQUES

GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.

Telephone: +33-4-67-49-55-37

Web: <http://www.gazechim.com/>

Availability: Belgium, France, Italy, Netherlands, Poland, Romania

Plastics Plus, Inc.

Telephone: 248-393-0300

Web: <http://www.plasplus.com/>

Availability: North America

Polymer Technology & Services, LLC

Telephone: 800-475-1701

Web: <http://www.ptslc.com/>

Availability: North America

Resin Resource, Inc.

Telephone: 877-652-3431

Web: <http://www.resinresourceinc.com/>

Availability: North America

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe

Southland Polymers

Southland Polymers - Full Service Engineering and Commodity Resin Distribution Since 1979

Telephone: 562-921-0444

Web: <http://www.southlandpolymers.com/>

Availability: Central America, North America, South America

Telko Oy

Telko Oy is a Pan European distribution company. Contact Telko Oy for availability of individual products by country.

Telephone: +358-9-5211

Web: <http://www.telko.com/>

Availability: Belarus, Estonia, Finland, Latvia, Lithuania, Ukraine

Tex-Co Resin Distribution, Inc.

Telephone: 877-908-3926

Web: <http://www.texcoresin.com/>

Availability: North America

